VIAIR®

Your Vital Air Source

MODEL NUMBER:

- **40043- 400P PORTABLE COMPRESSOR**

IMPORTANT:

It is essential that you and any other operator of the product read and understand the contents of this manual before installing and using this product.

SAVE THIS MANUAL FOR FUTURE REFERENCE

USER MANUAL

IMPORTANT SAFETY INSTRUCTIONS

CAUTION - To reduce risk of electrical shock or electrocution:

- **Do not disassemble. Do not attempt repairs or modifications. Refer to qualified service agencies for all service and repairs.**
- **Do not use this product in or area where it can fall or be pulled into water or other liquids.**
- **Do not reach for this product if it has fallen into liquid.**
- **Use this compressor with 12-volt DC systems only.**
- **This product should never be left unattended during use.**

WARNING - To prevent injury:

- **Never allow children to operate this compressor. Close supervision is necessary when this compressor is being used near children.**
- **This compressor will become very HOT during and immediately after use. Do not touch any part of this compressor with bare hands, other than the ON/OFF switch during and immediately after use.**
- **Do not use this product near flames or explosive materials or where aerosol products are being used.**
- **Do not operate this product where oxygen is being administered.**
- **Do not pump anything other than atmospheric air.**
- **Never use this product while sleepy or drowsy.**
- **Do not use any tools or attachments without first determining maximum air pressure for that tool or attachment.**
- **Never point any air nozzle or air sprayer toward another person or any part of the body.**
- **This air compressor is equipped with an Automatic Reset Thermal Protector, and can automatically restart after the thermal protector resets. Always cut off power source when thermal protector becomes activated.**
- **Wear safety glasses or goggles when operating this product.**
- **Use only in well ventilated areas.**

SAVE THESE INSTRUCTIONS

OPERATING INSTRUCTIONS

Please read and follow the operating instructions carefully to assure that you will enjoy the convenience and best use out of your air compressor.

IMPORTANT:

1. **Always operate the compressor AT OR BELOW THE MAXIMUM PRESSURE RATING of the compressor. Refer to Specifications section of this manual.**

2. **Always OBSERVE THE MAXIMUM DUTY CYCLE of the air compressor. Refer to Specifications section of this manual for details. Operations exceeding maximum pressure ratings and or duty cycle will result in damage to air compressor.**

3. **Your air compressor is equipped with an AUTOMATIC THERMAL OVERLOAD PROTECTOR. This feature is designed to protect the air compressor from over-heating causing permanent damage to your air compressor. The thermal overload protector will automatically cut off power to air compressor should internal operating temperature of the air compressor rise above safe levels during excessive use.**

4. **Should at any time during use, your air compressor automatically shuts off, do not attempt to restart air compressor. Turn ON/OFF switch of air compressor to the OFF position. The automatic thermal overload protector will automatically reset when internal temperature of the air compressor drops below safe level. After allowing air compressor to cool off for about 30 minutes, you can safely resume use of the air compressor by turning on the air compressor.**

5. **Please note that you may experience a slight delay (about ½ second) of the compressor's motor starting when the On/Off Switch is turned on while compressor is pressurized (when there is pressure in the line that the compressor is connected to). This is a normal delayed reaction, not a Compressor ON/OFF switch malfunction.**

6. **It is strongly recommended that you keep the vehicle's engine running while using the air compressor to prevent discharge of your vehicle's battery.**

7. **ONLY OPERATE THE AIR COMPRESSOR IN WELL VENTILATED AREAS. Compressor performance is enhanced when operating compressor with vehicle engine running.**

TIRE INFLATION & DEFLATION

IMPORTANT: Before attaching air compressor power cord to power source, check to make sure that the ON\/OFF switch of your compressor is in the Off position. Attach the Positive (+) battery clamp (Red) to the Positive terminal of the battery and the Negative (-) battery clamp (Black) to the Negative terminal of the battery. Always keep your vehicle engine running while operating compressor to avoid draining your vehicle's battery.

CAUTION: Your Portable Air Compressor is Moisture and Dust Resistant, but NOT WATER OR DUST PROOF. Never place compressor in soft sand while running the compressor. Vibration from the compressor will cause the compressor to settle into soft sand, resulting in compressor drawing in foreign particles. Never expose compressor to water while running the compressor.

IMPORTANT: Make sure compressor sits upright while operating compressor. Avoid tugging at compressor if line is taut. Instead, move the compressor to the same side of vehicle as tires that are being aired up.

IMPORTANT: Always make sure the Portable Compressor's 8 foot power cord is uncoiled and fully extended when using your air compressor to avoid overheating the power cord.

5-in-1 INLINE
INFLATOR / DEFLATOR HOSE

OPERATION INSTRUCTIONS:

This air compressor comes with ¼" quick connect stud. Your Inline Deflator comes with extension coil hose with ¼" quick coupler. Simply attach this multi-function extension coil hose to the ¼" quick connect stud and you are ready to inflate tires. The Inline Inflator/Deflator Hose can be used for both Airing Up and Airing Down. Please familiarize yourself with the following different functions of this versatile air tool:

A. TIRE INFLATION:

1. **Attach quick connect coupler to air compressor.**
2. **Push the tire chuck, with the lever in the upright position, down over the tire valve stem and then push the lever down to the horizontal position to lock in place.**
3. **Check to make sure the Deflator Collar Lock is disengaged.**
4. **Turn compressor switch on to begin inflation. When desired pressure is reached, turn compressor off.**

B. HANDS-FREE CONTINUOUS DEFLATION:

1. **Push the tire chuck, with the lever in the upright position, down over the tire valve stem and then push the lever down to the horizontal position to lock in place.**
2. **Push Deflator Collar toward tire valve stem and turn Deflator Collar clockwise to engage lock.**
3. **When desired pressure if reached, turn Deflator Collar counterclockwise to disengage lock.**

C. INTERMITTENT DEFLATION:

1. **The intermittent deflation function offers fast downward pressure adjustments.**
2. **With tire chuck attached to tire valve stem, push Deflator Collar toward tire valve stem to decrease tire pressure.**
3. **Release Deflator Collar to halt deflation.**

D. INLINE PRESSURE GAUGE:

1. **The 2-inch Inline Pressure Gauge provides convenient tire pressure monitoring when airing up or down. This eliminates switching back and forth between a tire chuck and a tire pressure gauge.**
2. **Please note that during inflation and deflation, due to air velocity, pressure gauge cannot provide accurate pressure readings. Momentarily halt inflation or deflation to obtain accurate pressure readings.**

SAFETY PRECAUTIONS

1. **Always inflate tires to manufacturer's recommended tire pressures. Exercise extreme caution when driving with aired-down tires. Re-inflate tires before high-speed roadway travel.**
2. **Never exceed 20 M.P.H. when driving with partially inflated tires.**
3. **Never make sharp turns while driving with reduced tire pressure.**
4. **Re-inflate tires before high speed traveling onto roadways.**
5. **Use heat-resistant, minimum 200 PSI-rated working pressure extension hose. Do not use aftermarket hoses with less than 200 PSI working pressure. Some aftermarket hoses may not be suitable for use with this air compressor due to heat and pressure typically generated by this type of air compressors.**
6. **The use of a close-ended tire chuck will cause excessive pressure buildup if tire chuck is not attached to tire valve stem while air compressor is in operation.**

IMPORTANT:
Always use an Open-Ended tire chuck such as the tire chuck equipped on the Inflator/Deflator Coil Hose for tire inflation when using a compressor without an air tank.

CAUTION: Never touch the air compressor or fittings connected to the air compressor other than the ON/OFF switch with bare hands during or immediately after use. The extension hose and fittings connected extension hose will become very HOT during and after use. If necessary, wear heat resistant gloves to remove hose from the compressor quick connect stud.

MAINTENANCE & REPAIRS

1. **Your air compressor is equipped with permanently lubricated, maintenance-free motor. Never try to lubricate the compressor.**

2. **Regularly clean dust and dirt from compressor cooling fins and motor housing.**

3. **All repairs should be performed by Manufacturer or Manufacturer authorized service agencies only.**

TROUBLESHOOTING CHART

PROBLEM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Compressor will not run	1. No power, or switch in OFF position 2. Blown fuse 3. Motor overheats	1. Make sure compressor switch is ON 2. Disconnect compressor from power source, replace fuse. (Refer to Specifications section for correct fuse) 3. Let compressor cool off for about 30 minutes for thermal overload switch reset
Thermal Overload Protector cuts out repeatedly	1. Lack of proper ventilation/ambient temperature too high 2. Compressor valves failed	1. Move compressor to well ventilated area, or area with lower ambient temperature 2. Replace compressor
Excessive knocking or rattling	1. Worn bearing on eccentric or motor shaft 2. Cylinder or piston ring is worn	1. Service or replace compressor 2. Service or replace compressor
Compressor air flow lower than normal, or can not pump to higher pressures	1. Worn piston ring or inlet valve	1. Service or replace compressor

SPECIFICATIONS

Part No. 40043 / 400 Automatic Portable

Motor Voltage:	**12-volt**
Motor Type:	**Permanent Magnetic**
Max. Intermittent Pressure:	**150 PSI**
Max. Duty Cycle:	**33% (15 on / 30 off)**
(Min. On/Off @ 72ºF & 100 PSI)	
Continuous Use @ 72ºF & 30 PSI:	**Approx. 40 Minutes**
Max. Current Consumption:	**30 Amps**
Fuse:	**40 Amps**
Inline Pressure Gauge:	**160 PSI**
Auto. Reset Thermal Protection:	**Yes**

LIMITED WARRANTY

VIAIR Corporation warrants this product, when properly installed and under normal conditions of use, to be free from defects in workmanship and materials for a period of one year from its original date of purchase. To receive warranty service or repair, please contact VIAIR Corporation.

Returns should be made within one year of the date of purchase, after a Return Goods Authorization (RGA) number has been assigned by VIAIR Corporation. To obtain RGA, fax a copy of your receipt to (949) 585-0188. For complete warranty details, please visit: www.viaircorp.com/warranty

PLEASE NOTE:

THIS WARRANTY COVERS PRODUCT DEFECTS ONLY; IT DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES AS RESULT OF MISUSE OR ABUSE.

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